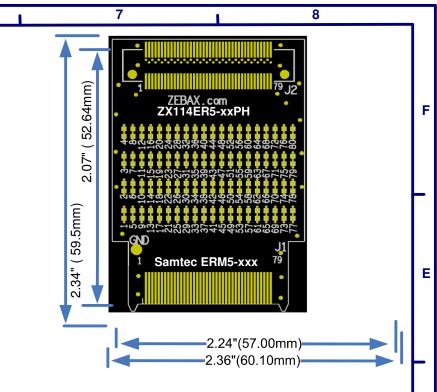
	1			2			3	4		5	1	6	
	Product Name	e: 2	ZX114ER5-x	xPH Sam	itec ERN	/15 Edge F	Rate rugged	Breakout Adapte	r				
F	Product Desc							It is collection of 8 mod haracterization, manuf					
			commonly use listed in the <i>Or</i>				eferred to the Z	X114ER5-xxPH modul	le where the "x	xx" will be one of the ERM5			
E	2- Listed 3- All tra 4- Four	des access t d number ad aces are 50 (layers PCB (jacent to each	header pin ro ce controllec ayers are GN	epresent tl d with exce ID planes.	he associate eptional sign	nal integrity & ci	M5 connector pin numb	per.				
	6- Mate s 7- Ease	s with any he of interface	eight and form with single cha	actor Samte and diff	c ERF5 ec ferential sc	dge rate rug cope probes	ged high speed	d connector formfactor.					
	Electrical:	Trace impe	oss > -2dB @3 edance: 50 Ω Temperature:		25°C				ZX114E	R5-x simplified cross section dia	ıgram	PI	.EA
þ		Samtec Co Onboard	onnector: I Connector: E N	RM5-xxx 2 lates with: A	rows per x Any Samte		k is 10 75 pins nfactor	s/row		Samtec ERF5-x connector	pint		nensi
		Plating: Header:	.020"(0.50mm 10μ"(0.25μm .1"(2.54mm))							der 's GND planes		
		Pin: S Height:	quare 0.025" (0.24" (6mm) Gold Flash							Samtec ERM5-x connector Host onboard ERF5-x connector	point	Ordering Info	orm
c	Application:	Bringup, te	esting, emulatic	on, developm	nent, modu	ılar design e	evaluations, ma	nufacturing loopback		HOST PCB s ers, Please note – The GND test point is connector to: ttom GND fill		Part number ZX114ER5-10PI ZX114ER5-20PI	ΗE
	Mates with :	edge rate	t and formfacto connector serie n ERF5 connec n -l	es.	RF5					er layers ground planes		ZX114ER5-30PI ZX114ER5-40PI ZX114ER5-50PI ZX114ER5-60PI	H E H E
-		2- Extende	ed Guide Post s ed Guide Post,	· ·	°S.							ZX114ER5-70PI ZX114ER5-75PI	ΗE
		4- Extende	ed Guide Post (and ERDP micr	Shield, -DSS		sembly				Compliance: ISO2001 certified RoHs - Lead Free		ZX100ACC-SS	F
в	Breakout Acc		X114ER5-xxP LL Samtec ER					ZX100ACC	-SS	EU RoHS2 UL E111594 document ELV- Vehicle Directive (Directive	2000/EC)	ZX100ACC-SS	3 site
		10 A	LE Samee En			aiù neauei.		Flying leads wire		European Union Directive (203/1 Halogen Free per IEC-61249-2.2 RoHs Directive 2011/65/EU	1/EC)		Note ALL Z
-										WEEE Directive (2012/12/EU) Certificate of Compliance for Rad	lioactive substa	ances	
									1	Certificate of Compliance for Asb Certificate of Compliance for Ozo Certificate REACH SVHC	estos ne Depleting S		SP AR RC
A	Notice									Certificate of Compliance RoHS_	EN_CoC		-
	IMPLIED, STATUTORY, OR O	THERWISE WITH R ed to be accurate and	RESPECT TO THE MATE	ERIALS, AND EXPRE	ESSLY DISCLAIN	MS ALL IMPLIED W	ARRANTIES OF NO INF	FRINGEMENT, MERCHANTABILITY, nformation or for any infringement of p	AND FITNESS FOR A patents or other rights of	f third parties that may result from its use.			DI
	Specifications mentioned in this	s publication are sub	ject to change without no	ptice. This publication	n replaces all othe	er information previo	busly supplied. Zebax Tec	chnologies products are not authorize	d as in life support devic	5 sor systems.		6	
	1		•	4	•		3	• 4		• 0	•	U	



EASE NOTE – Pictures on document are placeholders along with ensions. This document will be updated in 10 days.

rmation:

Mates with
ERM5-010 ERF5-010
ERM5-020 ERF5-020
ERM5-030 ERF5-030
ERM5-040 ERF5-040
ERM5-050 ERF5-050
ERM5-060 ERF5-060
ERM5-070 ERF5-070
ERM5-075 ERF5-075

Description

2 rows x 10 pins/row breakout adapter	
2 rows x 20 pins/row breakout adapter	С
2 rows x 30 pins/row breakout adapter	
2 rows x 40 pins/row breakout adapter	
2 rows x 50 pins/row breakout adapter	
2 rows x 60 pins/row breakout adapter	
2 rows x 70 pins/row breakout adapter	
2 rows x 75 pins/row breakout adapter	

D

в

Flying leads wire assembly

site page for ordering additional flying leads wire assembly

ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.

ZEBAX TECHNOLOGIES ANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717					
WW.ZEBAX.COM ASSEMBLY DRAWING					
PECIFIED DIMENSIONS RE INCHES (MM). OHS COMPLIANT	ITEM:	ITEM: ZX114ER5-xxPH			
	ntec Edge R		ed high speed pter		
			REVISSION: 1.0		
M. MARINA	MATTHE	W	SHEET: 1 OF 7		
7			8		

	1	2		3	4	5	6
	Product Name:	ZX114ER5-xxPF	I Samtec ERM5	Edge Rate rugged Bi	reakout Adapter		
F	Signal Access : All El	RM5 connector signal	s are accessible via o	nboard headers.			
	GND tes		& bottom GND fills. F	or improved signal integrity	ayers. They are connected to the y, please connect the GND test p		
	ZX114ER5-xxPH part			n 8 different models, suppo ith associated mechanical	orting each ERM5 connector size diagram.	е.	
E	Typical Application:	approach in usage o 1- Utilizing single o 2- Real-Time test a	of breakout adapters b or differential scope pr and measurements, al	by : obe.	full connector's bandwidth. It pro test equipment or evaluation bo		
	Scope Probe wire Ins	stallation:				at CND reference point	
D				ized as GND reference int	obe wire interfacing to the neare erface with host.	st GND relefence point.	
	ZX114ER5-10PH – Two	o rows x 10 pins per ro	ow ERM5 breakout ad	apter , supporting ERM5-0	010 Samtec Edge Rate rugged c	onnectors	
с	Samtec ERF5-01	0					
		u					
$\left \right $	(mm9.6E) "95.		©	1 ¹ ZX114ER8-40 0 m r = 9 = 9			
в		3 34 - 10 - 18 - 10 - 10 10 - 10 - 10 	2				
	J2. ZEBAX.com	4-ER8-10	GND	J2o 1 ZEBAX.com			

ALL

Z SF AF RO \mathbf{D}

- 1

6

7

5

ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

3

4

Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems.

- 1

Α

Notice

Samtec ERM5-010 0.78" (20mm)

ž

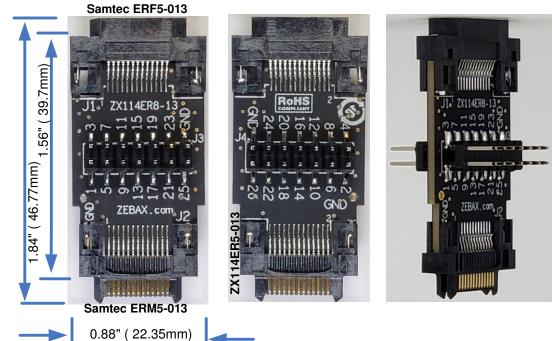
2

				F
				Е
				-
				-
				D
				С
				_
				в
Note				
ALL ZEBAX products are RoHS compliant a	nd Le	ad Free unless otherwise indicated.		
ZEBAX TECH SANTA CRUZ, CA U.S WWW.ZEBAX.COM				-
SPECIFIED DIMENSION ARE INCHES (MM),	vs	ASSEMBLY DR ITEM: ZX114ER		
ROHS COMPLIANT	nte	c Edge Rate rugged		Α
		ctor Breakout Adapte	er	
CHECKED: M. MARINA		AWN: IATTHEW	REVISSION: 1.0 SHEET: 2 OF 7	

8

8





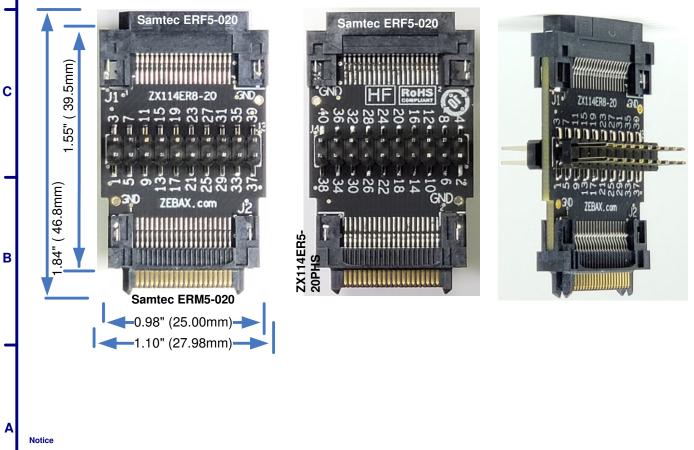
Ε

D

С

1

ZX114ER5-30PH - Two rows x 30 pins per row ERM5 breakout adapter , supporting ERM5-030 Samtec Edge Rate rugged connectors



Z \mathbf{S} W SF AF R(

ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

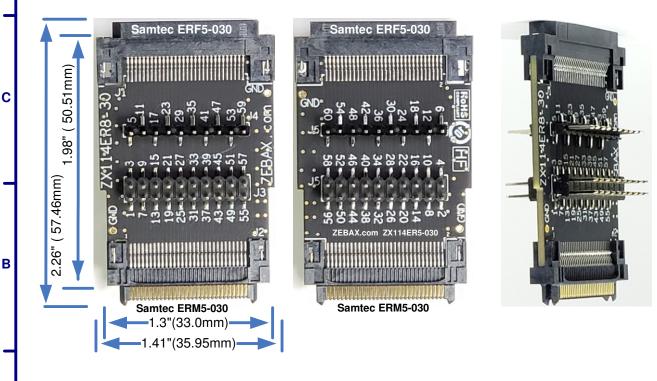
Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems

	F
	E
	D
	c
Note ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.	в
ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT ITEM: ZX114ER5-xxPH DESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter	_ A
CHECKED: DRAWN: REVISSION: 1.0 M. MARINA MATTHEW SHEET: 3 OF 7 7 8	

8



ZX114ER5-40PH - Two rows x 40 pins per row ERM5 breakout adapter , supporting ERM5-040 Samtec Edge Rate rugged connectors



Notice

ALL

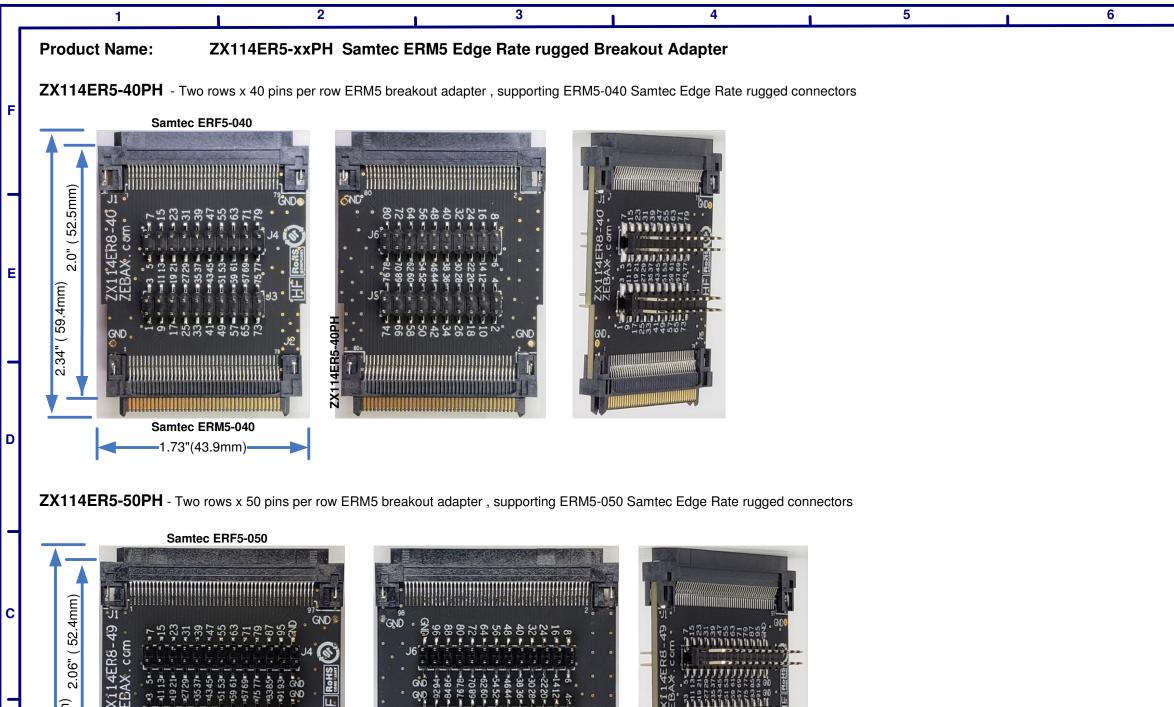
SA WY SP AF R(D) CH

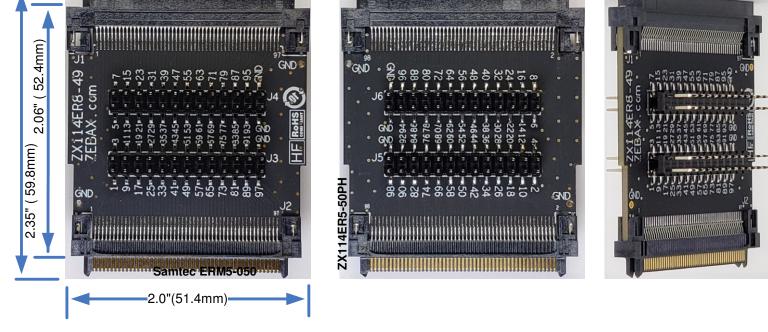
ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems.

L ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated. XEBAX TECHNOLOGIES ANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WW.ZEBAX.COM PECIFIED DIMENSIONS RE INCHES (MM). OHS COMPLIANT ASSEMBLY DRAWING ITEM: ZX114ER5-xxPH ASSECRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter HECKED: DRAWN: M. MARINA REVISSION: 1.0				F
te Image: Second state indicated indindicated indicated indicated indicated indicated indi				Е
te B L ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated. E KEBAX TECCHNOLOGIES ANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 VWW.ZEBAX.COM ASSEMBLY DRAWING PECIFIED DIMENSIONS RE INCHES (MM). OHS COMPLIANT ASSEMBLY DRAWING PESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter HECKED: DRAWN: REVISSION: 1.0 MATTHEW				D
te L ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated. XEBAX TECHNOLOGIES ANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WW.ZEBAX.COM PECIFIED DIMENSIONS RE INCHES (MM). OHS COMPLIANT PESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter HECKED: M. MARINA DRAWN: MATTHEW REVISSION: 1.0 SHEFT: 4 OF 7				с
A A A A A A A A A A A B C A A B C C A C A	L ZEBAX products are RoHS compliant and L			в
Description: Drawn: REVISIONS MARINA Drawn: REVISSION: 1.0 MATTHEW Sheft: 4 OF 7	ANTA CRUZ, CA U.S.A			
DESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter A HECKED: DRAWN: REVISSION: 1.0 M. MARINA MATTHEW SHEFT: 4 OF 7	RE INCHES (MM).			
HECKED: M. MARINA MATTHEW REVISSION: 1.0 SHEET: 4 OF 7	ESCRIPTION. Samte	c Edge Rate rugged	high speed	Α
SHEET: 4 OF 7	Conne HECKED: DI	RAWN:		
		MATTHEW	SHEET: 4 ОГ 7 8	

8





B

Notice

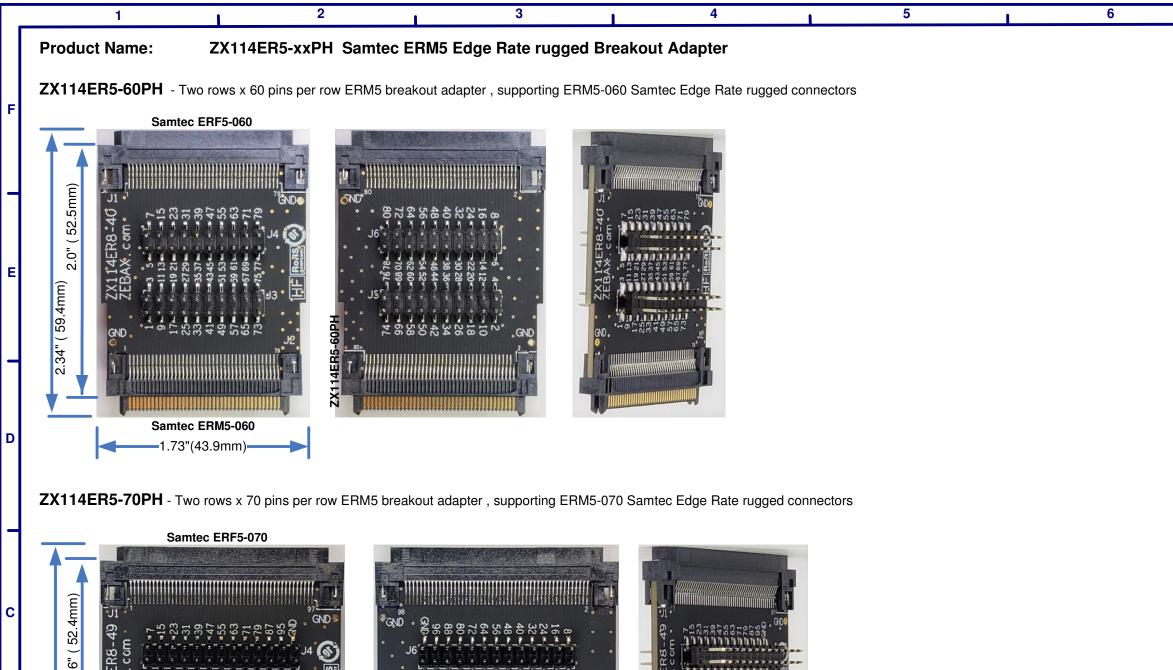
7 \mathbf{S} W SF AF R(

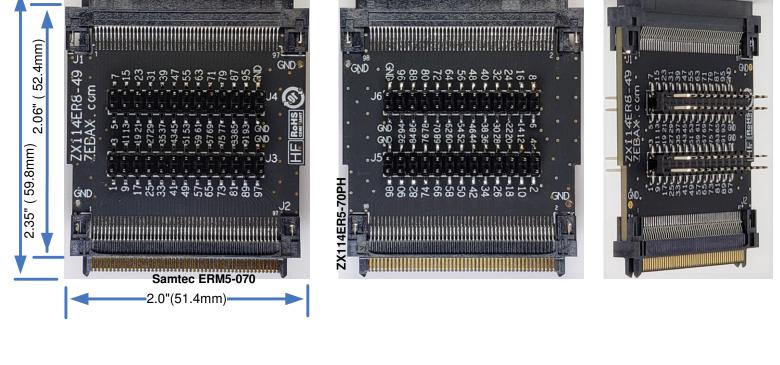
ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems

	F
	E
	D
	c
Note ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.	в
ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT ITEM: ZX114ER5-xxPH DESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter	_
CONNECTOR Breakout Adapter CHECKED: DRAWN: REVISSION: 1.0 M. MARINA MATTHEW SHEET: 5 OF 7 7 8	

8





B

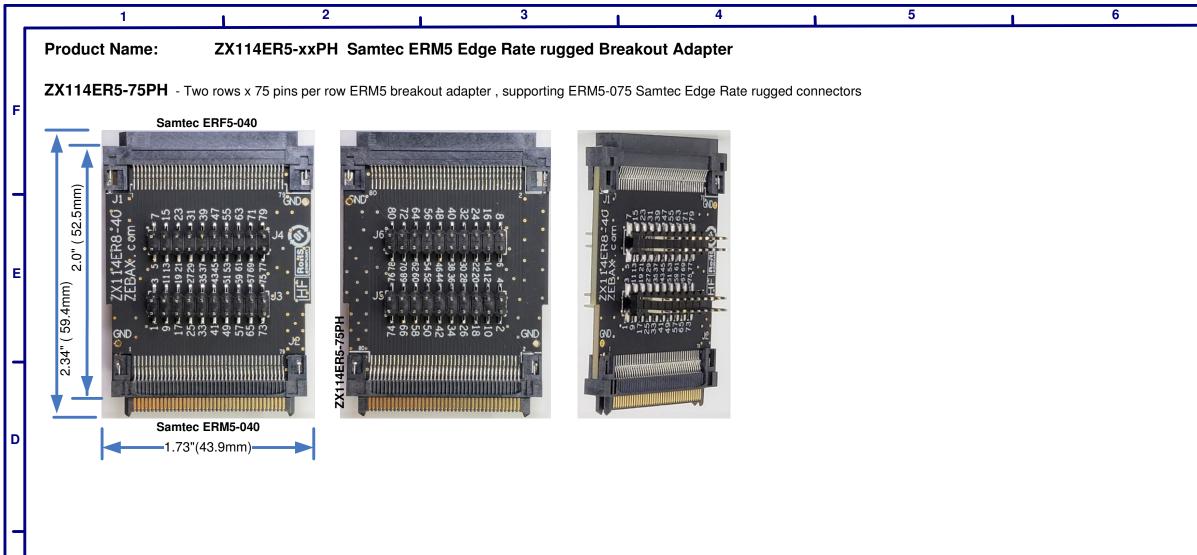
Notice

ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems

	F
	E
	D
	c
Note ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.	в
ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT ITEM: ZX114ER5-xxPH DESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter	_
CHECKED: DRAWN: REVISSION: 1.0 M. MARINA MATTHEW SHEET: 6 OF 7 7 8	

8



Not ALL

SA W SF AF R(D сн

ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems.

С

В

Notice

1

			F
			E
			D
			С
Note ALL ZEBAX products are RoHS compliant and			в
ZEBAX TECH SANTA CRUZ, CA U.S.			
WWW.ZEBAX.COM	ASSEMDIVDE	AWING	
SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ITEM: ZX114ER		
DESCRIPTION. Samt	ec Edge Rate rugged	high speed	Α
conn	ector Breakout Adapte		
	DRAWN: MATTHEW	REVISSION: 1.0 SHEET: 7 OF 7	
7		8	

8